

# Translation

## PATENT COOPERATION TREATY

PCT/JP2004/005308



# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference TDK057WO	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2004/005308	International filing date (day/month/year) 14 April 2004 (14.04.2004)	Priority date (day/month/year) 15 April 2003 (15.04.2003)
International Patent Classification (IPC) or national classification and IPC H01F 41/04, 17/00, H01G 4/12, H05K 3/18, 3/46		
Applicant TDK CORPORATION		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 4 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
  - ☒ (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:
    - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
- This report contains indications relating to the following items:
  - ☒ Box No. I Basis of the report
  - ☐ Box No. II Priority
  - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - ☐ Box No. IV Lack of unity of invention
  - ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - ☐ Box No. VI Certain documents cited
  - ☐ Box No. VII Certain defects in the international application
  - ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 10 September 2004 (10.09.2004)	Date of completion of this report 22 April 2005 (22.04.2005)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/005308

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages \_\_\_\_\_ 1-21 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- pages \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19
- pages\* 1,2,3,4,6,7 received by this Authority on 10 February 2005 (10.02.2005)
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- pages \_\_\_\_\_ 1/7-7/7 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. \_\_\_\_\_ 5,8 \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/005308

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	1, 2, 3, 4, 6, 7	YES
	Claims		NO
Inventive step (IS)	Claims	3, 4	YES
	Claims	1, 2, 6, 7	NO
Industrial applicability (IA)	Claims	1, 2, 3, 4, 6, 7	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

Document 1: JP, 2000-40633, A (Murata MFG. Co., Ltd.)  
February 8, 2000 (02.08.00), Full text, all drawings & US, 2003/38372, A1 & US, 6555913, B

Document 2: JP, 11-186097, A (Matsushita Electric Industrial Co., Ltd.)  
July 9, 1999 (07.09.99), Claim 1 & EP, 938107, A2 & US, 2001/20754, A1 & US, 6413456, B1

Document 3: JP, 2001-110662, A (TDK Corporation)  
April 20, 2001 (04.20.01), Paragraphs 0021 and 0025

Document 4: JP, 59-32115, A (Toko, Inc.)  
February 21, 1984 (02.21.84), Full text, all drawings

Document 5: JP, 2001-267167, A (Mitsubishi Electric Corporation)  
September 28, 2001 (09.28.01), Paragraphs 0022-0029

Document 6: JP, 2000-331858, A (TDK Corporation)  
November 30, 2000 (11.30.00), Paragraph 0030

Document 7: JP, 7-211571, A (Fuji Electric Co., Ltd.)  
August 11, 1995 (08.11.95), Paragraph 0012

## Regarding claims 1 and 2

Document 1 describes a method for forming laminated electronic components by exposing and developing treatments using a positive photosensitive material and negative photosensitive material.

Both documents 2 and 3 describe a technology, wherein after a laminate in which electronic components are to be formed on a substrate is formed, the substrate is removed therefrom.

As described in document 3 (paragraph 0021), document 6 (paragraph 0030), and document 7 (paragraph 0012), a section from which a photosensitive material was removed is filled by electrodepositing treatment is a well-known art.

Also, repeating exposing, developing and bonding treatment for a plurality of times is a matter of design variation that could be easily conceived of as appropriate by a party skilled in the art in view of the number of kinds, etc. of sections formed on the same layer with different properties from one another.

Therefore, applying the technology described in documents 2 and 3 and the above well-known art to the invention described in document 1 to achieve the constitution of the inventions relating to claims 1 and 2 could be easily conceived of by a party skilled in the art.

## Regarding claims 6 and 7

Both documents 4 and 5 describe a technology of forming laminated electronic components comprising a section with at least three properties different from one another.

Applying the technology described in documents 2 and 3, the technology described in documents 4 and 5, and the above well-known art to the invention described in document 1 to achieve the constitution of the inventions relating to claims 6 and 7 could be easily conceived of by a party skilled in the art.

**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.  
Continuation of Box V.2:

Regarding claims 3 and 4

A treatment such that a depositing treatment is stopped in the middle, a section in which a photosensitive material was removed is partly remained, and a photosensitive material is deposited on the remained section is not described in any of documents 1-7; nor would it be obvious to a party skilled in the art.